## What is claimed is:

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- 1. A primer comprising the nucleotide sequence of SEQ ID NO: 1, which specifically amplifies *groEL2* gene fragment of *Streptomyces* species.
- 2. A primer comprising the nucleotide sequence of SEQ ID NO: 2, which specifically amplifies *groEL2* gene fragment of *Streptomyces* species.
- 3. A polynucleotide comprising *groEL2* gene fragment derived from 10 Streptomyces species or fragment thereof, which is selected from the group consisting of the nucleotide sequences of SEQ ID NOs: 3 to 42.
  - 4. A polynucleotide comprising *groEL2* gene fragment derived from a potato scab pathogenic microorganism or fragment thereof, which is selected from the group consisting of the nucleotide sequences of SEQ ID NOs: 43 to 61.
  - 5. A method for identifying *Streptomyces* species comprising the steps of
    - 1) amplifying *groEL2* gene fragment of target strain using a primer which is capable of specifically amplifying *groEL2* gene of *Streptomyces* species;
      - analyzing the nucleotide sequence of groEL2 gene fragment thus amplified; and
  - 3) comparing the nucleotide sequence obtained in Step 2) with that of *groEL2* gene fragment of a reference strain.

6. The method of claim 5, wherein the primer is at least one selected from the group consisting of a primer comprising the nucleotide sequence of SEQ ID NO: 1 and a primer comprising the nucleotide sequence of SEQ ID NO: 2.

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- 7. The method of claim 5, wherein the *groEL2* gene fragment of a reference strain is selected from the group consisting of the nucleotide sequences of SEQ ID NOs: 3 to 42.
- 10 8. The method of claim 5, wherein the *groEL2* gene fragment of a reference strain is selected from the group consisting of the nucleotide sequences of SEQ ID NOs: 43 to 61.
- 9. The method of claim 5, wherein the step 3) further comprises the steps of comparing the nucleotide sequence of *groEL2* gene fragment of a target strain with that of a reference strain, multi-aligning the nucleotide sequences, and forming a phylogenetic tree.

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